- Collaborate Canada



Build Embedded Canvas PowerApps to Replace Your Dialogs

Nick Doelman

Microsoft Business Applications MVP

CollaborateCanada



Who Am I?

Nick Doelman, Microsoft MVP - Business Applications

Power Platform/Dynamics 365 Specialist

Ottawa, ON, CANADA

@readyxrm

https://readyxrm.blog

https://www.linkedin.com/in/nickdoelman/

https://crm.audio/category/podcasts/dynamics 365-portals/

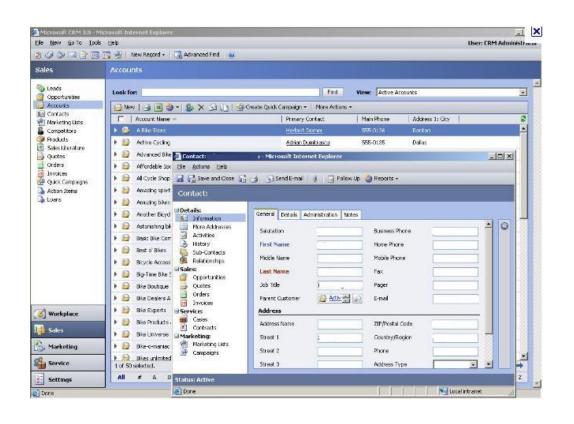


Agenda

- Intro
- What is the Power Platform?
- Using Dialogs
- Replacing Dialogs with Embedded Canvas Apps
- How to Embed a Canvas App on a Model Driven Form
- Other old stuff you should update!
- Q&A

What is the Power Platform?

Dynamics CRM: In the Beginning





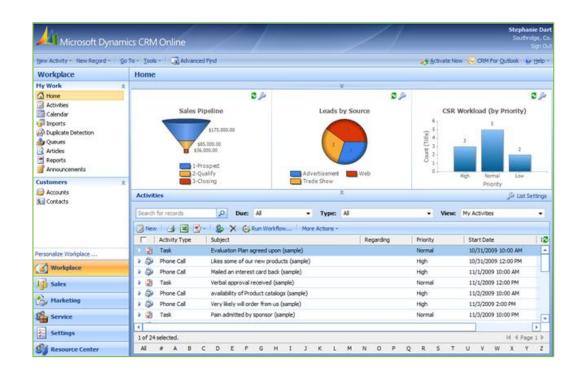
Dynamics CRM

- Sales
- Service
- Marketing

Business Application Layer

Microsoft SQL

Dynamics CRM Online



Dynamics CRM Online

- Sales
- Service
- Marketing

Business Application Layer

Microsoft SQL

AZURE/Office 365

xRM – Unique Line of Business Apps



Unique Line of Business Apps

a.k.a. xRM Applications

"anything" Relationship Management

Dynamics CRM/CRM Online

- Sales
- Service
- Marketing

Business Application Layer

Microsoft SQL



xRM – Unique Line of Business Apps



- Data Entity and Relationships
- Multi-user
- Web Based
- User Security and Authentication
- User Interface
- Automation (Workflow)
- Reporting
- Integration
- Mobile
- Etc...

xRM - Unique Line of Business Apps

XRM

One Platform. Many Applications.

https://youtu.be/Yru5CkANOKA



Renaming: Dynamics 365



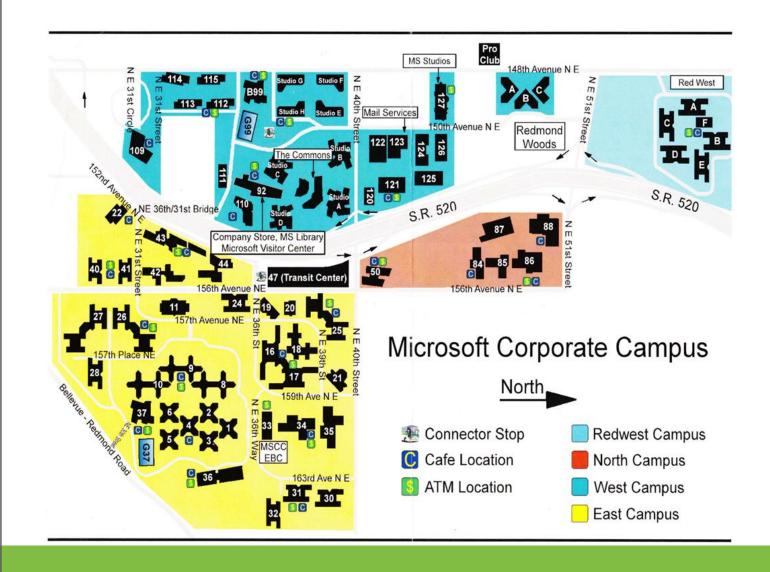


Dynamics 365 (CRM, F&O, Bus. Central)

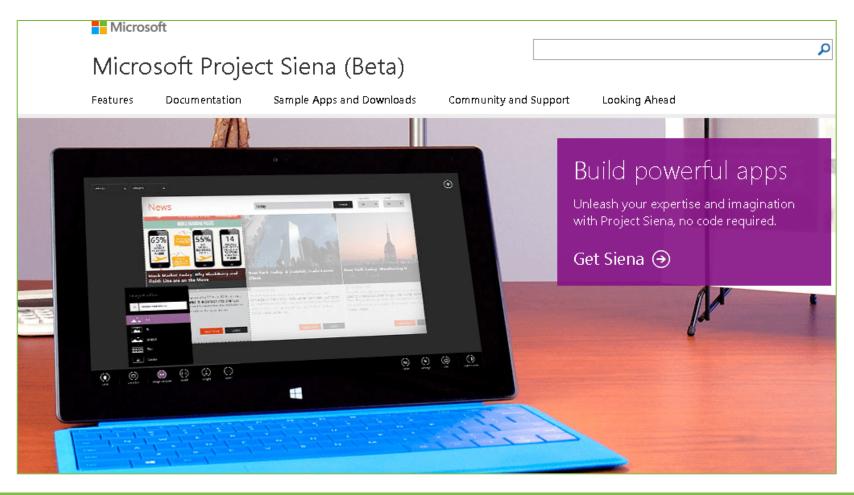


Dynamics Unique Line of Business Apps **Dynamics** a.k.a. xRM Applications 365 365 "anything" Relationship Finance & Business Operations Central Management **Dynamics 365 for Customer** Engagement Sales Service Marketing **Business Application Layer** Microsoft SQL **AZURE**

Meanwhile, in some other Lab at Microsoft...



Project Siena



"Classic" PowerApps

PowerApps – low code/no code

- SharePoint
- Office 365
- SQL
- etc

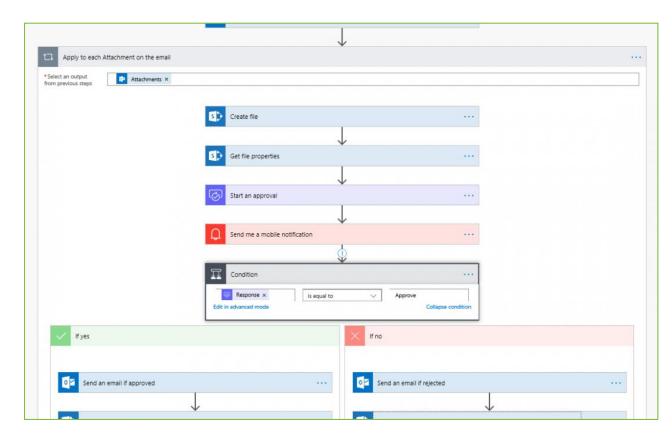


Microsoft Flow



Flow – low code/no code workflows

- SharePoint
- Office 365
- SQL
- Etc



PowerBl



Power BI – Reporting

Any data source



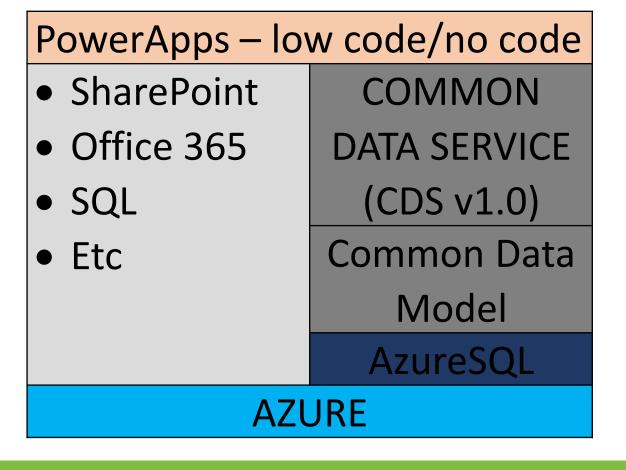
Maybe need a Database with Common Entities...?



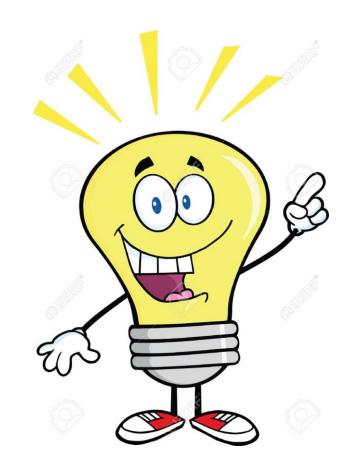
Common Data Service

Common Entities like;

- Accounts
- Contacts
- Activities...



What can we do with this new tech?



PowerApps – Unique Line of Business Apps



- Data Entity and Relationships
- Multi-user
- Web Based
- User Security and Authentication
- User Interface
- Automation
- Reporting
- Integration
- Mobile
- Etc...

What can we do with this new tech?

Unique Line of Business Apps PowerApps – low code/no code SharePoint COMMON • Office 365 DATA SERVICE • SQL (CDS v1.0) Common Data • Etc Model AzureSQL **AZURE**







Dynamics 365, PowerApps, Flow, PowerBI – Better together!





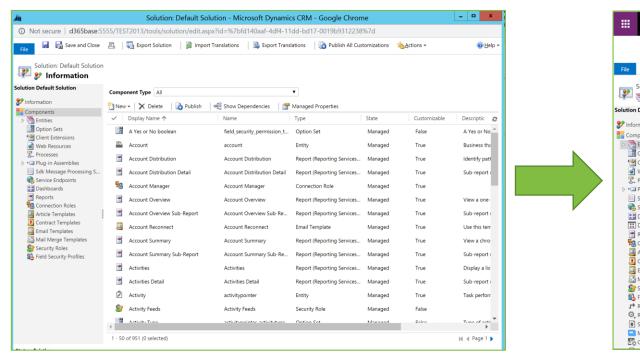


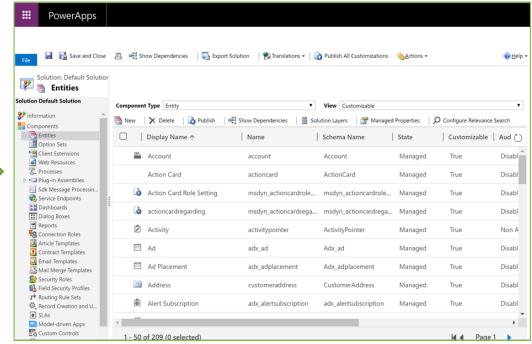


Dynamics 365, PowerApps, Flow, PowerBI – Better together!



Overnight, we all became PowerApps Experts!





The Power Platform

PowerApps						
Dynamics 365 First Unique Line of						
Party Apps	Business Apps			Ş		
Sales						
Service	PowerApps			ŗ		
 Marketing 	 Model Driven 				Dynamics 365	Dynamics 365
 New Marketing 	(CRM style)	FLOW	PowerBI	Connectors	Finance & Operations	Business Central
 Talent 	Canvas Based					
Retail	Portals			0		
More				Ŭ		
	"xRM" but better			+		
Common Data Service "2.0"				Ö		
Common Data Model				200+		
Azure SQL				7		
AZURE						

— LollaborateLanada

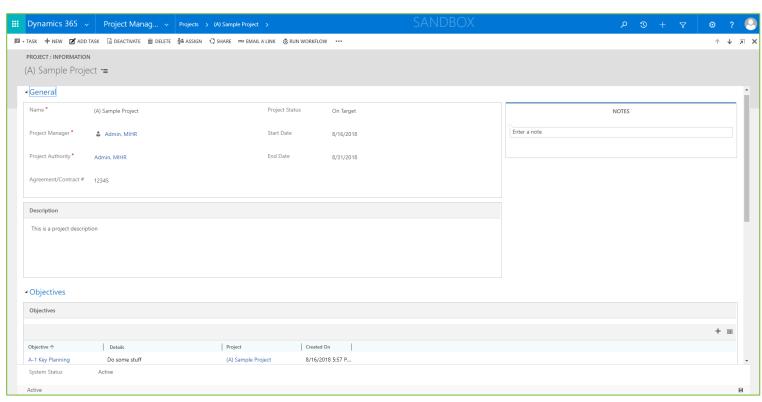
#CollaborateCanada

Terminology

- Classic Web Interface
- Unified Interface
- Canvas App
- Model Driven App
- PowerApp Component Framework control

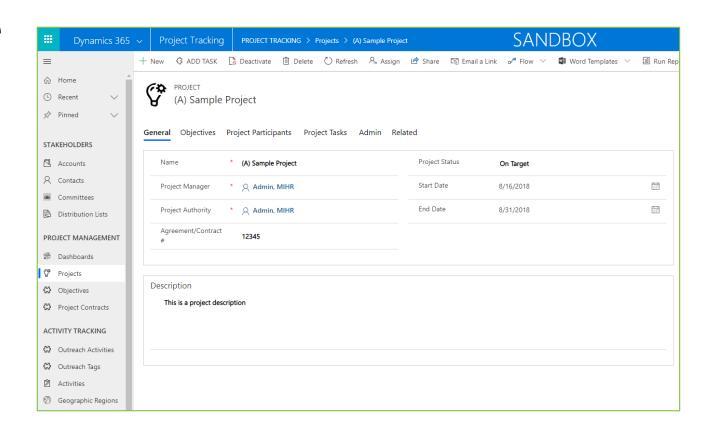
Classic Web Interface

- Existing "CRM" style interface
- Build for Web Browsers
- Tricky to navigate
- Lots of white space
- Introduced in CRM 2013
- Will be deprecated
 October 2020!



Unified Interface

- New, updated "CRM" style interface
- Scales to different layouts
- Faster
- Side Navigation, Tabs (remember CRM 2011?)
- Default experience moving forward
- Does not support Dialogs



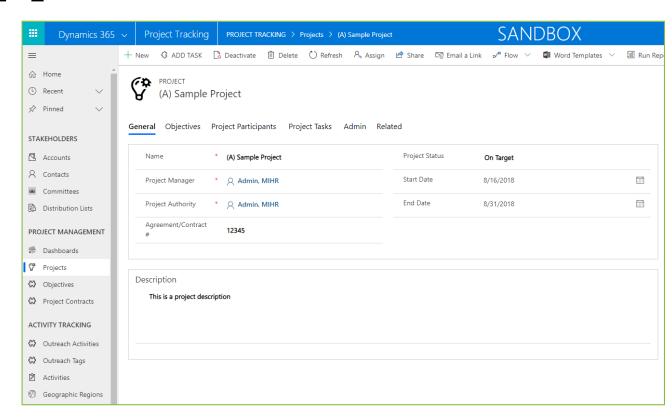
Canvas App

- Traditional "PowerApp"
- Extremely flexible layout
- Variety of devices (web, mobile, etc)
- 100s of Connectors (including CDS)
- Constantly evolving
- Great for "single task" type applications
- Can be embedded in Model Driven



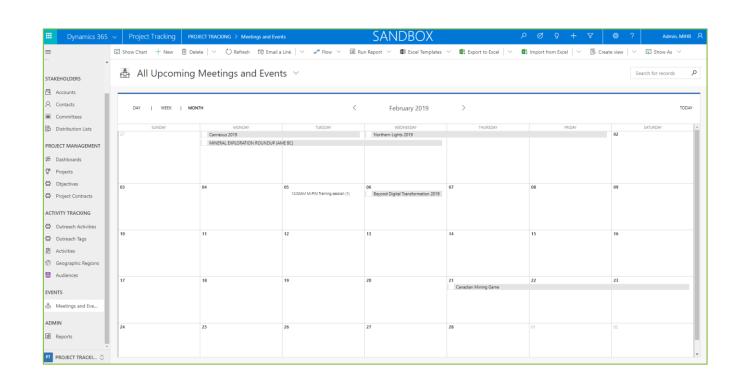
Model Driven App

- Traditional "CRM" style interface
- Entities, Views, Forms
- Standard Layout
- Backend is CDS database
- Build line of business apps quickly
- Admin or complex applications
- Dynamics 365 CE is a model driven app



PowerApps Component Framework

- Customized User Controls for Model Driven Apps
- Allows developers to create customized user experience controls
- Some created by Microsoft, many created by community
- Embedded Canvas App is type of Control
- Other examples are editable grid, calendar control, etc.



https://pcf.gallery

Dialogs

- Workflows with user interaction
- Use Case Project Task Tracking

The "Old Way" – Using Dialogs in the Classic Web

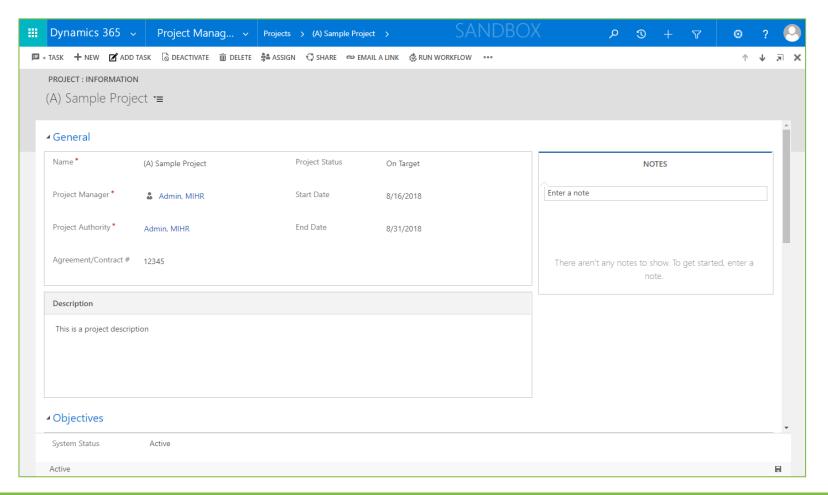
App



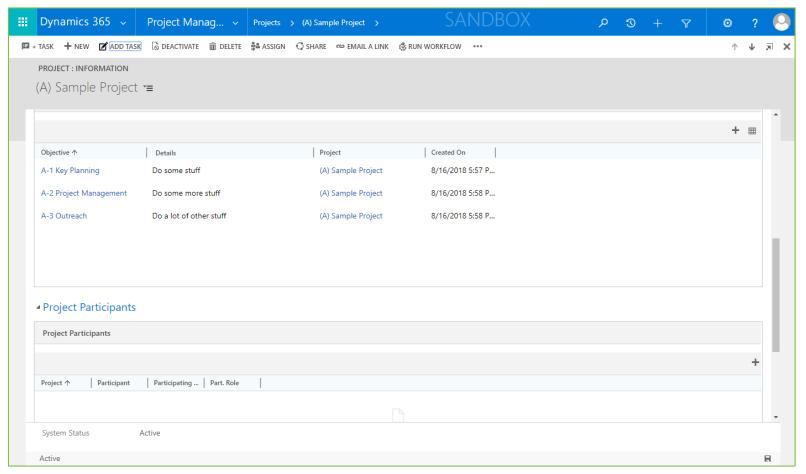


#CollaborateCanada

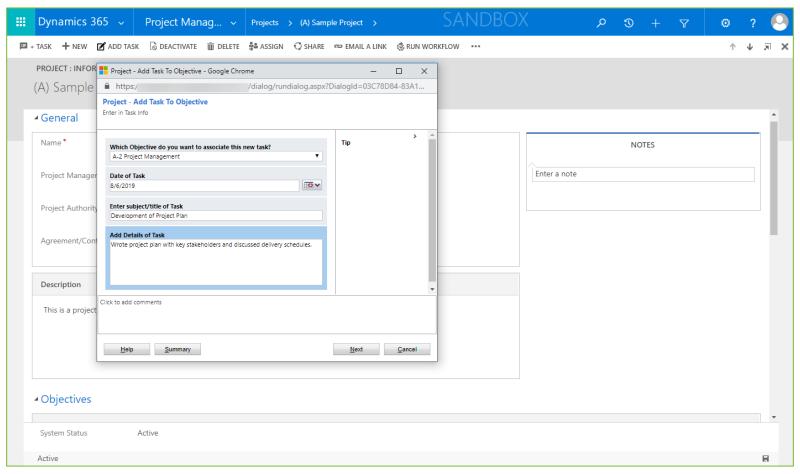
Task Tracking Against Project



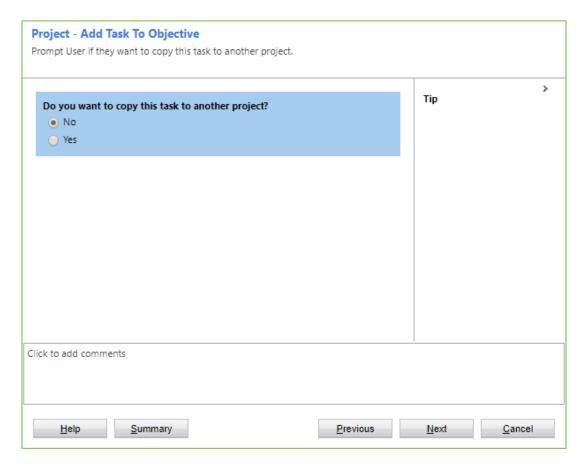
Adding Project Tasks Against Objectives



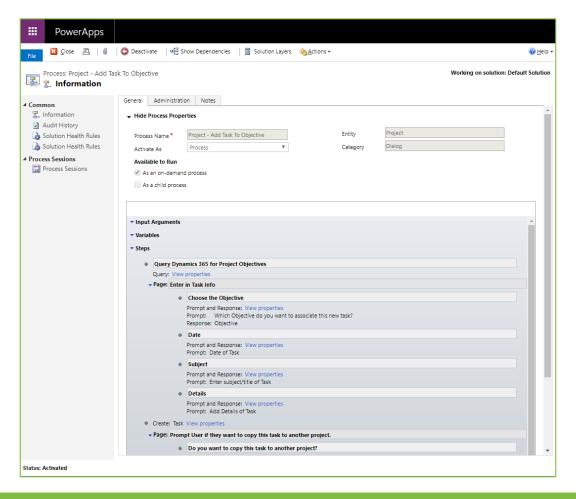
Adding Project Tasks Against Objectives



Copy Project Tasks to other projects



Building a Dialog



Accomplishments

- Reduced clicks
- Easier for end users to understand
- Accurate reporting

Going Forward

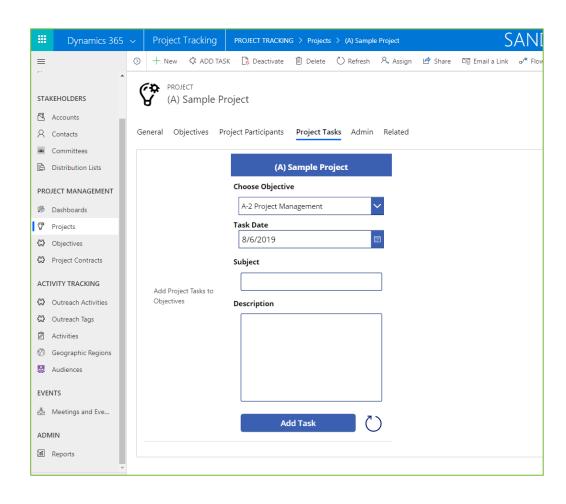
- Dialogs have been deprecated
- Unified Interface
- Dialogs were never that pretty anyway

The "New Way" – Using an Embedded Canvas App





#CollaborateCanada

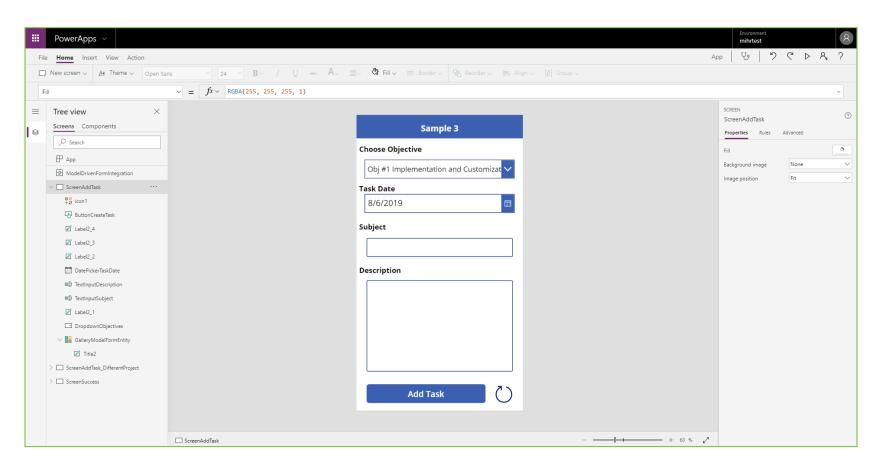


Embedding a Canvas App on a Model Driven Form

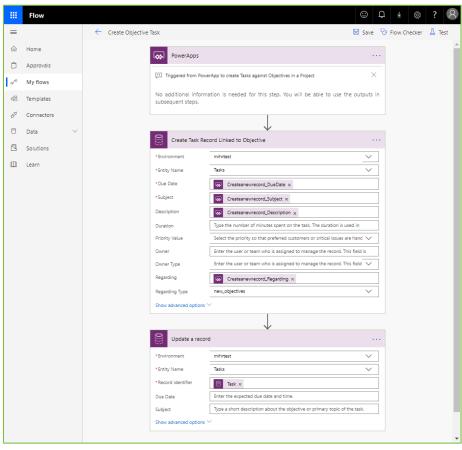




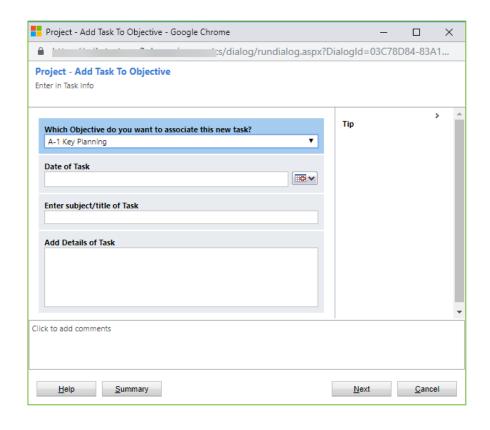
Embedding a Canvas App on a Model Driven Form

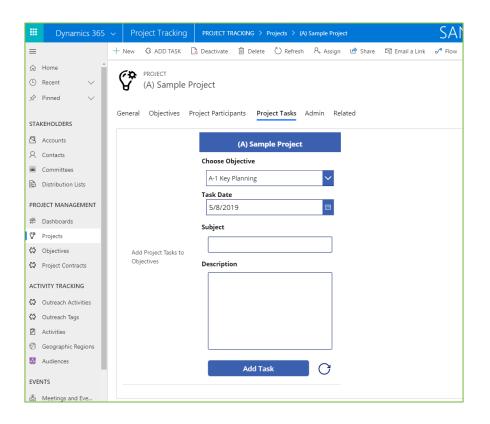


Challenges – Writing Data back to CDS – Flow solution



Preference?





Other stuff you should replace

- Use Flows instead of Workflows
- Unified Client instead of legacy web client (must do before October 2020)
- Online instead of on-prem
- PCF Controls vs Web Resources
- Outlook App instead of Outlook Client
- PowerBI vs SSRS?

Tips/Advice?

- There is no "conversion tool" Challenge, anyone? (XrmToolBox tool?)
- Good Opportunity to Redesign User Interactions
- Not the only way; Business Process Flows, Custom PCF Controls, or just Flow
- Update to the new Unified Interface. Now. Seriously. Go do it!
- Always start with Flow instead of Workflows.
- New projects, consider vanilla CDS instances, but caution that there is no upgrade path currently to Dynamics 365
- Budget time *weekly* to review new features or updates!

Any Questions?



#CollaborateCanada

